

#7

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/532,050

Source:

Date Processed by STIC: PCR
4/27/05

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 04/27/2005

PATENT APPLICATION: US/10/532,050

TIME: 09:58:41

Input Set : N:\Crf4\Refhold\PCT_folder\PU28654A.raw

Output Set: N:\CRF4\04272005\J532050.raw

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1 <110> APPLICANT: Behrens, Sven-Erik
2   Isken, Olaf
3   Grassmann, Claus W.
4   Sarisky, Robert T.
5 <120> TITLE OF INVENTION: A Set Of Ubiquitous Cellular Proteins
6   Involved in Viral Life Cycle
7 <130> FILE REFERENCE: P51375
C--> 8 <140> CURRENT APPLICATION NUMBER: US/10/532,050
C--> 9 <141> CURRENT FILING DATE: 2005-03-11
10 <150> PRIOR APPLICATION NUMBER: PCT/US03/28654
11 <151> PRIOR FILING DATE: 2003-09-12
12 <150> PRIOR APPLICATION NUMBER: 60/410,460
13 <151> PRIOR FILING DATE: 2002-09-13
14 <160> NUMBER OF SEQ ID NOS: 8
15 <170> SOFTWARE: FastSEQ for Windows Version 4.0
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 1270
19 <212> TYPE: PRT
20 <213> ORGANISM: Homo sapien
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25               20             25             30
26   Lys Phe Met Cys Glu Val Gln Val Glu Gly Tyr Asn Tyr Thr Gly Met
27               35             40             45
28   Gly Asn Ser Thr Asn Lys Lys Asp Ala Gln Ser Asn Ala Ala Arg Asp
29       50             55             60
30   Phe Val Asn Tyr Leu Val Arg Ile Asn Glu Ile Lys Ser Glu Glu Val
31       65             70             75             80
32   Pro Ala Phe Gly Val Ala Ser Pro Pro Pro Leu Thr Asp Thr Pro Asp
33               85             90             95
34   Thr Thr Ala Asn Ala Glu Gly Asp Leu Pro Thr Thr Met Gly Gly Pro
35               100            105            110
36   Leu Pro Pro His Leu Ala Leu Lys Ala Glu Asn Asn Ser Glu Val Gly
37               115            120            125
38   Ala Ser Gly Tyr Gly Val Pro Gly Pro Thr Trp Asp Arg Gly Ala Asn
39               130            135            140
40   Leu Lys Asp Tyr Tyr Ser Arg Lys Glu Glu Gln Glu Val Gln Ala Thr
41       145            150            155            160
42   Leu Glu Ser Glu Glu Val Asp Leu Asn Ala Gly Leu His Gly Asn Trp
43               165            170            175
44   Thr Leu Glu Asn Ala Lys Ala Arg Leu Asn Gln Tyr Phe Gln Lys Glu

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45          180          185          190
46  Lys Ile Gln Gly Glu Tyr Lys Tyr Thr Gln Val Gly Pro Asp His Asn
47          195          200          205
48  Arg Ser Phe Ile Ala Glu Met Thr Ile Tyr Ile Lys Gln Leu Gly Arg
49          210          215          220
50  Arg Ile Phe Ala Arg Glu His Gly Ser Asn Lys Lys Leu Ala Ala Gln
51          225          230          235          240
52  Ser Cys Ala Leu Ser Leu Val Arg Gln Leu Tyr His Leu Gly Val Val
53          245          250          255
54  Glu Ala Tyr Ser Gly Leu Thr Lys Lys Lys Glu Gly Glu Thr Val Glu
55          260          265          270
56  Pro Tyr Lys Val Asn Leu Ser Gln Asp Leu Glu His Gln Leu Gln Asn
57          275          280          285
58  Ile Ile Gln Glu Leu Asn Leu Glu Ile Leu Pro Pro Pro Glu Asp Pro
59          290          295          300
60  Ser Val Pro Val Ala Leu Asn Ile Gly Lys Leu Ala Gln Phe Glu Pro
61          305          310          315          320
62  Ser Gln Arg Gln Asn Gln Val Gly Val Val Pro Trp Ser Pro Pro Gln
63          325          330          335
64  Ser Asn Trp Asn Pro Trp Thr Ser Ser Asn Ile Asp Glu Gly Pro Leu
65          340          345          350
66  Ala Phe Ala Thr Pro Glu Gln Ile Ser Met Asp Leu Lys Asn Glu Leu
67          355          360          365
68  Met Tyr Gln Leu Glu Gln Asp His Asp Leu Gln Ala Ile Leu Gln Glu
69          370          375          380
70  Arg Glu Leu Leu Pro Val Lys Lys Phe Glu Ser Glu Ile Leu Glu Ala
71          385          390          395          400
72  Ile Ser Gln Asn Ser Val Val Ile Ile Arg Gly Ala Thr Gly Cys Gly
73          405          410          415
74  Lys Thr Thr Gln Val Pro Gln Phe Ile Leu Asp Asp Phe Ile Gln Asn
75          420          425          430
76  Asp Arg Ala Ala Glu Cys Asn Ile Val Val Thr Gln Pro Arg Arg Ile
77          435          440          445
78  Ser Ala Val Ser Val Ala Glu Arg Val Ala Phe Glu Arg Gly Glu Glu
79          450          455          460
80  Pro Gly Lys Ser Cys Gly Tyr Ser Val Arg Phe Glu Ser Ile Leu Pro
81          465          470          475          480
82  Arg Pro His Ala Ser Ile Met Phe Cys Thr Val Gly Val Leu Leu Arg
83          485          490          495
84  Lys Leu Glu Ala Gly Ile Arg Gly Ile Ser His Val Ile Val Asp Glu
85          500          505          510
86  Ile His Glu Arg Asp Ile Asn Thr Asp Phe Leu Leu Val Val Leu Arg
87          515          520          525
88  Asp Val Val Gln Ala Tyr Pro Glu Val Arg Ile Val Leu Met Ser Ala
89          530          535          540
90  Thr Ile Asp Thr Ser Met Phe Cys Glu Tyr Phe Phe Asn Cys Pro Ile
91          545          550          555          560
92  Ile Glu Val Tyr Gly Arg Thr Tyr Pro Val Gln Glu Tyr Phe Leu Glu
93          565          570          575

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96   Lys Lys Asp Lys Asp Asp Asp Gly Gly Glu Asp Asp Asp Ala Asn Cys
97           595           600           605
98   Asn Leu Ile Cys Gly Asp Glu Tyr Gly Pro Glu Thr Arg Leu Ser Met
99           610           615           620
100  Ser Gln Leu Asn Glu Lys Glu Thr Pro Phe Glu Leu Ile Glu Ala Leu
101      625           630           635           640
102  Leu Lys Tyr Ile Glu Thr Leu Asn Val Pro Gly Ala Val Leu Val Phe
103           645           650           655
104  Leu Pro Gly Trp Asn Leu Ile Tyr Thr Met Gln Lys His Leu Glu Met
105           660           665           670
106  Asn Pro His Phe Gly Ser His Arg Tyr Gln Ile Leu Pro Leu His Ser
107           675           680           685
108  Gln Ile Pro Arg Glu Glu Gln Arg Lys Val Phe Asp Pro Val Pro Val
109           690           695           700
110  Gly Val Thr Lys Val Ile Leu Ser Thr Asn Ile Ala Glu Thr Ser Ile
111      705           710           715           720
112  Thr Ile Asn Asp Val Val Tyr Val Ile Asp Ser Cys Lys Gln Lys Val
113           725           730           735
114  Lys Leu Phe Thr Ala His Asn Asn Met Thr Asn Tyr Ser Thr Val Trp
115           740           745           750
116  Ala Ser Lys Thr Asn Leu Glu Gln Arg Lys Gly Arg Ala Gly Arg Ser
117           755           760           765
118  Thr Ala Gly Phe Cys Phe His Leu Cys Ser Arg Ala Arg Phe Glu Arg
119           770           775           780
120  Leu Glu Thr His Met Thr Pro Glu Met Phe Arg Thr Pro Leu His Glu
121      785           790           795           800
122  Ile Ala Leu Ser Ile Lys Leu Leu Arg Leu Gly Gly Ile Gly Gln Phe
123           805           810           815
124  Leu Ala Lys Ala Ile Glu Pro Pro Pro Leu Asp Ala Val Ile Glu Ala
125           820           825           830
126  Glu His Thr Leu Arg Glu Leu Asp Ala Leu Asp Ala Asn Asp Glu Leu
127           835           840           845
128  Thr Pro Leu Gly Arg Ile Leu Ala Lys Leu Pro Ile Glu Pro Arg Phe
129           850           855           860
130  Gly Lys Met Met Ile Met Gly Cys Ile Phe Tyr Val Gly Asp Ala Ile
131      865           870           875           880
132  Cys Thr Ile Ala Ala Thr Cys Phe Pro Glu Pro Phe Ile Asn Glu
133           885           890           895
134  Gly Lys Arg Leu Gly Tyr Ile His Arg Asn Phe Ala Gly Asn Arg Phe
135           900           905           910
136  Ser Asp His Val Ala Leu Leu Ser Val Phe Gln Ala Trp Asp Asp Ala
137           915           920           925
138  Arg Met Gly Gly Glu Glu Ala Glu Ile Arg Phe Cys Glu His Lys Arg
139           930           935           940
140  Leu Asn Met Ala Thr Leu Arg Met Thr Trp Glu Ala Lys Val Gln Leu
141      945           950           955           960
142  Lys Glu Ile Leu Ile Asn Ser Gly Phe Pro Glu Asp Cys Leu Leu Thr

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145          980          985          990
146 Ser Leu Leu Ala Phe Gly Val Tyr Pro Asn Val Cys Tyr His Lys Glu
147          995          1000          1005
148 Lys Arg Lys Ile Leu Thr Thr Glu Gly Arg Asn Ala Leu Ile His Lys
149          1010          1015          1020
150 Ser Ser Val Asn Cys Pro Phe Ser Ser Gln Asp Met Lys Tyr Pro Ser
151          1025          1030          1035          1040
152 Pro Phe Phe Val Phe Gly Glu Lys Ile Arg Thr Arg Ala Ile Ser Ala
153          1045          1050          1055
154 Lys Gly Met Thr Leu Val Pro Pro Leu Gln Leu Leu Leu Phe Ala Ser
155          1060          1065          1070
156 Lys Lys Val Gln Ser Asp Gly Gln Ile Val Leu Val Asp Asp Trp Ile
157          1075          1080          1085
158 Lys Leu Gln Ile Ser His Glu Ala Ala Ala Cys Ile Thr Gly Leu Arg
159          1090          1095          1100
160 Ala Ala Met Glu Ala Leu Val Val Glu Val Thr Lys Gln Pro Ala Ile
161          1105          1110          1115          1120
162 Ile Ser Gln Leu Asp Pro Val Asn Glu Arg Met Leu Asn Met Ile Arg
163          1125          1130          1135
164 Gln Ile Ser Arg Pro Ser Ala Ala Gly Ile Asn Leu Met Ile Gly Ser
165          1140          1145          1150
166 Thr Arg Tyr Gly Asp Gly Pro Arg Pro Pro Lys Met Ala Arg Tyr Asp
167          1155          1160          1165
168 Asn Gly Ser Gly Tyr Arg Arg Gly Gly Ser Ser Tyr Ser Gly Gly Gly
169          1170          1175          1180
170 Tyr Gly Gly Gly Tyr Ser Ser Gly Gly Tyr Gly Ser Gly Gly Tyr Gly
171          1185          1190          1195          1200
172 Gly Ser Ala Asn Ser Phe Arg Ala Gly Tyr Gly Ala Gly Val Gly Gly
173          1205          1210          1215
174 Gly Tyr Arg Gly Val Ser Arg Gly Gly Phe Arg Gly Asn Ser Gly Gly
175          1220          1225          1230
176 Asp Tyr Arg Gly Pro Ser Gly Gly Tyr Arg Gly Ser Gly Gly Phe Gln
177          1235          1240          1245
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181          1265          1270
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190 gaaggttata attacactgg catgggaaat tccaccaata aaaaagatgc acaaagcaat 180
191 gctgccagag actttgttaa ctatttggtt cgaataaatg aaataaagag tgaagaagtt 240
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195 cgaggagcca acttgaagga ttactactca agaaaggaag aacaagaagt gcaagcgact 480
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197 gctaaagctc gtctaaacca atattttcag aaagaaaaga tccaaggaga atataagtac 600
198 acccaagtgg gtctgatca caacaggagc ttatttcag aaatgacct ttatatcaag 660
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VERIFICATION SUMMARY

DATE: 04/27/2005

PATENT APPLICATION: US/10/532,050

TIME: 09:58:42

Input Set : N:\Crf4\Refhold\PCT_folder\PU28654A.raw

Output Set: N:\CRF4\04272005\J532050.raw

L:8 M:270 C: Current Application Number differs, Replaced Current Application Number

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date